An isosceles triangle is the one in which exactly two of its sides have the same length. A point in the plane is given by two coordinates, $(x, y)$.

The following graph shows the idea.


Figure 1: Six points, enough to form a few triangles
Your task is to create an algorithm that answers, given $N$ points, how many isosceles triangles do they form?

## Input

The input consists of several test cases. For each test case, the first line has an integer $N$, the number of points. The next $N$ lines contain two integers, $X_{i}$ and $Y_{i}$, indicating the points in the plane.
$1 \leq N \leq 100 ;-100 \leq X_{i}, Y_{i} \leq 100$

## Output

For each test case, print a single line with an integer, representing the total number of isosceles triangles formed by the $N$ points.

To avoid rounding errors, make sure that in your program two lengths $L_{a}, L_{b}$ are considered equal if $\left|L_{a}-L_{b}\right|<10^{-6}$.

## Sample Input

6
-4 1
-3 3
-2 1
-2 0
-1 1
-1 -1
3
-4 1
-2 1
-1 1

## Sample Output

